

1 BILL NO. S-91-10-28

2 SPECIAL ORDINANCE NO. S-261-91

3 AN ORDINANCE approving the awarding  
4 of Reference #5015 by the City of  
5 Fort Wayne, Indiana, by and through  
its Department of Purchasing and  
FRAKES ENGINEERING for the Fort Wayne  
Filtration Plant.

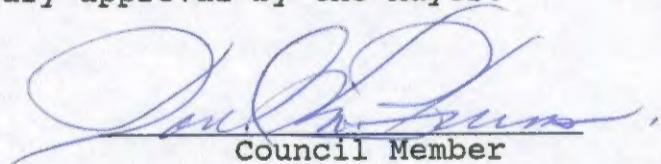
6 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL  
7 OF THE CITY OF FORT WAYNE, INDIANA;

8 SECTION 1. That Reference #5015 between the City of  
9 Fort Wayne, by and through its Department of Purchasing  
10 and FRAKES ENGINEERING for the Fort Wayne Filtration  
11 Plant, respectfully for:

12 the purchase of pump station controls  
13 and telemetry equipment for the  
14 Filtration Plant;

15 involving a total cost of One Hundred Thirteen Thousand  
16 Seven Hundred Fifty and no/100 Dollars (\$113,750.00), all  
17 as more particularly set forth in said Reference #5015  
18 which is on file in the Office of the Department of  
19 Purchasing, and is by reference incorporated herein, made  
20 a part hereof, and is hereby in all things ratified,  
21 confirmed and approved.

22 SECTION 2. That this Ordinance shall be in full  
23 force and effect from and after its passage and any and  
24 all necessary approval by the Mayor.

25   
26 Council Member

27 APPROVED AS TO FORM  
28 AND LEGALITY

29   
30 J. Timothy McCaulay, City Attorney councilmember  
31  
32

OUR STAR BOND

REF. NO.: 5015  
DEPT.: FILTRATION PLANT  
DATE: 10/22/91  
ITEM/SERV.: TELEMETRY EQUIPMENT

PURCHASING INFORMATION

ADVERTISED BID: YES  
DATES ADVERTISED: 8/30/91 & 9/6/91

OPENING DATE: 9/19/91

WRITTEN QUOTE:

DUE DATE:

VERBAL QUOTE:

SINGLE SOURCE:

NO. OF VENDORS NOTIFIED: 9

NO. OF VENDORS RECEIVING BID/QUOTE: 4

NO. OF VENDORS RETURNING BID/QUOTE: 4

NO. OF VENDORS DISQUALIFIED: 0

NO. OF VENDORS NOT RESPONDING: 5

DATE SENT TO DEPT FOR RECOMM.: 9/19/91

DATE RECOMMENDATION REC'D IN PURCH: 10/8/91

COUNCIL INFORMATION	DATES SENT	EXTENSION	INCREASE
DATE INFO SENT TO LAW DEPT.:	10/10/91		8/7/91
INTRODUCTION DATE:	10/22/91		8/13/91
DISCUSSION DATE:	11/12/91		8/20/91
PASSAGE DATE:	11/19/91		8/27/91

ORDINANCE NO.:

AMOUNT APPROVED AND/OR SPENT  
LAST YEAR OR CURRENT: (IF APPLICABLE)

REFERENCE NO. 5015  
PUMP STATION CONTROL AND  
TELEMETRY EQUIPMENT  
9-19-91

DESCRIPTION	HURST TECH	LHL TECH	FRAKES ENGINE	STATES ENGINE
SW PUMP STAT EQUIP	\$28,375.00	\$31,263.14	\$24,779.00	\$18,825.00
W PUMP STAT EQUIP	\$13,308.00	\$13,066.00	\$9,237.00	\$15,853.00
GM TANK EQUIP	\$14,840.00	\$14,261.25	\$12,286.00	\$17,273.00
CENTRAL PLCS AND RADIO EQUIP	\$33,958.00	\$41,105.14	\$32,113.00	\$33,326.00
CENTRAL UPS EQUIP	\$17,239.00	\$12,605.14	\$15,495.00	\$13,063.00
WIRE, CONDUIT ETC	\$2,174.00	\$1,525.83	\$807.00	\$765.55
SUPPORT EQUIP	\$13,860.00	\$11,862.79	\$12,769.00	\$11,402.00
SPARE EQUIP	\$7,770.00	\$9,759.69	\$6,264.00	\$6,700.00
TOTAL	\$131,524.00	\$135,448.98	\$113,750.00	\$117,207.55

FRONT PAGE/INVITATION TO BID  
DEPARTMENT OF PURCHASING  
CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA  
ONE MAIN STREET - ROOM 350  
PHONE 219-427-1101

BID OPENING DATE 9-19-91 @ 11:00 AM BID REFERENCE # 5015

SEALED BIDS SHOULD BE DELIVERED TO DEPARTMENT OF PURCHASING, ROOM 350, CITY-COUNTY BUILDING UP TO 11:00 A.M. ON OR BEFORE OPENING DATE.

SEALED BIDS WILL BE OPENED PUBLICLY AT 11:01 A.M. IN THE BOARD OF WORKS & SAFETY CONFERENCE ROOM ON THE THIRD FLOOR OF THE CITY-COUNTY BUILDING. "NO LATE BIDS WILL BE ACCEPTED AFTER 11:00 A.M. FOR ANY REASON WHATSOEVER".

THIS INVITATION FOR BID IS FOR PUMP STATION CONTROLS AND  
TELEMETRY EQUIPMENT PER SPECIFICATIONS

AND REQUESTED BY THREE RIVERS FILTRATION PLANT

THIS BID REQUIRES A XXXX 5% BID BOND, CERTIFIED OR CASHIER'S CHECK OF ALL BIDDERS.

THIS BID REQUIRES A        100% PERFORMANCE BOND OF SUCCESSFUL BIDDER(S).

PROMPT PAYMENT DISCOUNTS WILL BE ALLOWED AS FOLLOWS:       % IF PAID WITHIN        DAYS.

THIS INVITATION IS ISSUED TO ESTABLISH A CONTRACT TO SUPPLY THE CITY OF FORT WAYNE WITH A COMMODITY OR SERVICE IN ACCORDANCE WITH ACCOMPANYING SPECIFICATIONS.

THE EXECUTION HEREOF BY THE BIDDER IS ACCEPTANCE OF ALL TERMS AND CONDITIONS HEREIN AND IN THAT REGARD THE BIDDER AGREES TO BE BOUND BY SAME AND BE BOUND TO THE AMOUNT OF HIS/HER BID FOR A PERIOD OF NINETY (90) DAYS.

FIRM NAME FRAKES ENGINEERING

STREET ADDRESS 8001 CASTLEWAY DRIVE

CITY INDIANAPOLIS PHONE # (317) 577-3000

BY Al Turner Al Turner  
REPRESENTATIVE SIGNATURE

## PROPOSED COMPLETION TIME

Owner must begin receiving Contractor's lot shipments and associated invoices as soon as possible after award. Owner expects to receive final lot shipment except for long lead time items such as the UPS and certain radio equipment from Contractor within 35 calendar days after Contract award. However, Owner and Engineer cannot anticipate equipment availability or manufacturer's delivery times. Owner and Engineer have attempted to specify off-the-shelf items.

To help Owner and Engineer plan Owner's installation and startup work, provide the following proposed completion time information:

The Contractor proposes to ship the first lot of equipment except UPS and radio equipment within 25 days after Contract award.

The Contractor proposes to ship the final lot of equipment except UPS and radio equipment within 35 days after Contract award.

## BREAKDOWN OF LUMP SUM PRICE

Provide the following breakdown of the lump sum price. Items include costs for equipment, assembly (if any), and related warranties, shipping insurance, etc.

<u>Item No.</u>	<u>Description</u>	<u>Item Price (\$)</u>
1	Southwest Pump Station Equipment	<u>\$ 24,779.00</u>
2	West Pump Station Equipment	<u>9,237.00</u>
3	GM Tank Equipment	<u>12,286.00</u>
4	Central PLCs and Radio Equipment	<u>32,113.00</u>
5	Central UPS Equipment	<u>15,495.00</u>
6	Wire, Conduit, etc.	<u>807.00</u>
7	Support Equipment	<u>12,769.00</u>
8	Spare Equipment	<u>6,264.00</u>
<b>TOTAL LUMP SUM PRICE</b>		<u>113,750.00</u>

XYCON DEVELOPMENT SOFTWARE #2000-SS-010 is not available nor is pricing set, therefore it has not been included in this quotation.

## SECTION 01010

### SUMMARY OF WORK

#### PART 1 - GENERAL

##### 1.01 SCOPE

A. This section describes the overall scope of the work necessary to furnish assembled new equipment and to furnish additional off-the-shelf equipment. The Owner and Others will install and start up the equipment as part of a Programmable Logic Controller (PLC)-based pump station control and telemetry system.

#### PART 2 - PRODUCTS

##### 2.01 GENERAL

A. In general, the equipment to be supplied includes, but is not limited to, the following:

1. PLCs, racks, modules, and power supplies, plus termination strips, relays, etc.
2. Panel enclosures, assembled and wired with PLC racks, I/O modules, termination strips, relays, etc. ~~for three remote pump stations~~. <sup>2 remote pump</sup> <sub>1 remote tank</sub>
3. Spare PLC and electrical equipment (not to be assembled into enclosures).
4. Radio antennas, a radio, and communication cables.
5. Wire, conduit, and conduit boxes.
6. A 10-KVA Uninterruptible Power Supply (UPS).
7. Test equipment for various instruments and electrical loops.
8. Miscellaneous microprocessor-based equipment for program development, maintenance, documentation, remote support, and training.
9. Related installation, operation, and maintenance manuals.

B. Equipment items to be furnished and assembled are shown in the Drawings. Additional off-the-shelf equipment is listed within these Specifications (and is not shown in the Drawings). Supply both the equipment described in the Specifications and that shown in the Drawings.

## 2.02 SERVICES AND PRODUCTS

- A. Provide properly packaged, labeled, insured, and warranted assembled and off-the-shelf equipment.
- B. Provide equipment and material lists, bills of materials, and all related installation, operation, and maintenance manuals.
- C. Central PLC and Radio Equipment. Provide the following for this lot:
  1. Two (2) Square D register rack assemblies, Class 8030, type RRK 200.
  2. Two (2) Square D power supplies, Class 8030, type PS 31.
  3. Two (2) Square D CPU modules, Class 8055, type SCP 655.
  4. Two (2) Square D radio network interface modules (RNIM), type CRM 560.
  5. One (1) workstation with shelf enclosure, Smith System Model 02871.
  6. One (1) radome radio antenna Scala Model SY700.
  7. One (1) Master Station UHF radio, MDS 1000-HS hot standby master station. Tune radio to 952.7125/928.7125 MHz frequencies currently used by the Filtration Plant telemetry system (DAQ). ~~4800 Baud option, asynchronous direct interface: RS422~~
  8. One (1) 3-foot section of "superflexible" transmission cable for connection to the master station radio antenna port. Include standard N-type connectors for connection to the cable extending to the antenna.
  9. Fifty feet of transmission cable to connect the superflexible cable to the antenna. Provide low-loss foam dielectric type, 7/8 inch in diameter.
  10. Three hundred feet of 9 conductor (with shield) data communications cable to connect the master station radio communications port (RS232) to the RNIM module (RS422) in the PLC rack near the control room.
  11. 300 feet of 4 conductor (with shield) radio diagnostics cable to connect the master station radio diagnostics port (RS232) to the operator control station PC (RS232).
- D. Central UPS Equipment. Provide the 10-KVA equipment and services specified in Section 16610 for this lot.
- E. Wire, Conduit, Etc. Provide the following for this lot:
  1. Three (3) boxes of 2,000 feet each red No. 14 wire, type THHN.
  2. Two (2) boxes of 2,000 feet each blue No. 14 wire, type THHN.
  3. One (1) box of 2,000 feet each white No. 14 wire, type THHN.

## BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

(Defined at I.C. 36-1-2-9.5)  
(Please type or print)

1. Governmental Unit: City of Fort Wayne  
 2. County: Allen County  
 3. Bidder (Firm): Frakes Engineering  
 Address: 8001 Castleway Drive  
 City/State: Indianapolis, IN 46250  
 4. Telephone Number: 317-577-3000  
 5. Agent of Bidder (If applicable): N/A

Date: 9/18/91

Pursuant to notices given, the undersigned offers bid(s) to City of Fort Wayne (Governmental Unit) in accordance with the following attachment(s) which specify the class or item number or description, quantity, unit, unit price and total amount.

The contract will be awarded by classes or items, in accordance with specifications. Any changes or alterations in the items specified will render such bid void as to that class or item. Bidder promises that he has not offered nor received a less price than the price stated in his bid for the materials included in said bid. Bidder further agrees that he will not withdraw his bid from the office in which it is filed. A certified check or bond shall be filed with each bid if required, and liability for breach shall be enforceable upon the contract, the bond or certified check or both as the case may be.

  
 Signature of Bidder or Agent  
 Charles A. Turner

## BID OFFER OR PROPOSAL

Attach separate sheet listing each item bid based on specifications published by governing body.  
 Following is an example of the bid format:

Class or Item	Quantity	Unit	Description	Unit Price	Amount

## NON-COLLUSION AFFIDAVIT

STATE OF INDIANA )  
 ) SS:  
 COUNTY )

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

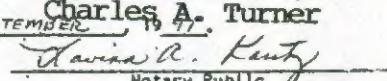
He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

Frakes Engineering

Bidder (Firm)

  
 Signature of Bidder or Agent  
 Charles A. Turner

Subscribed and sworn to before me this 18<sup>th</sup> day of September, 19<sup>94</sup>.  
 My Commission Expires: 3/24/94  
 County of Residence: MARION

  
 Signature of Notary Public  
 Lavina A. Kautz  
 Notary Public  
 Notary Public Printed Name  
 Lavina A. Kautz

## ACCEPTANCE

There now being sufficient unbilled appropriated funds available, the contracting authority of \_\_\_\_\_ (Governmental Unit) hereby accepts the terms of the attached bid for classes or items numbered \_\_\_\_\_ and promises to pay the undersigned bidder upon delivery the price quoted for the materials stipulated in said bid.

Date: \_\_\_\_\_

Contracting Authority Members:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Read the first time in full and on motion by Burns  
seconded by Redd, and duly adopted, read the second time  
title and referred to the Committee on City Utilities (and the  
City Plan Commission for recommendation) and Public Hearing to be held after  
due legal notice, at the Council Conference Room 128, City-County Building  
Fort Wayne, Indiana, on \_\_\_\_\_, 19\_\_\_\_\_, at \_\_\_\_\_ o'clock A.M., E.S.T.  
of \_\_\_\_\_

DATED: 10-22-91

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Burns,  
seconded by Henry, and duly adopted, placed on its  
passage. PASSED 7 to the following vote:

<u>TOTAL VOTES</u>	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAINED</u>	<u>ABSENT</u>
BRADBURY	<u>7</u>	_____	_____	<u>2</u>
BURNS	<u>✓</u>	_____	_____	<u>5</u>
EDMONDS	<u>✓</u>	_____	_____	_____
GIAQUINTA	<u>✓</u>	_____	_____	_____
HENRY	<u>✓</u>	_____	_____	_____
LONG	<u>✓</u>	_____	_____	_____
REDD	_____	_____	_____	_____
SCHMIDT	<u>✓</u>	_____	_____	<u>5</u>
TALARICO	<u>✓</u>	_____	_____	_____

DATED: 11-12-91

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne,  
Indiana, as (ANNEXATION) (APPROPRIATION) (GENERAL)  
(SPECIAL) (ZONING MAP) ORDINANCE RESOLUTION NO. S-261-91  
on the 12th day of November, 1991.

Sandra E. Kennedy ATTEST  
SANDRA E. KENNEDY, CITY CLERK

Samuel J. Talarico SEAL  
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on  
the 13th day of November, 1991,  
at the hour of 11:00 o'clock A.M., E.S.T.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 13th day of November,  
1991, at the hour of 5:20 o'clock A.M., E.S.T.

Paul Helmke  
PAUL HELMKE, MAYOR

DIGEST SHEET

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of Ref. No. 5015 for the purchase of pump station controls and telemetry equipment for the Filtration Plant. The cost reflects the lowest and most responsive of four (4) vendors.

*S-91-10-28*

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

EFFECT OF PASSAGE: Provide "off-the-shelf" electronic equipment, provide equipment and material lists, bills of materials and all related installation, operation, and maintenance manuals, PLC's and radio equipment for telemetry and related hardware for the pump stations instrumentation/controls/telemetry project that will provide more reliable communications between the Filtration Plant and these remote pumping stations and finished water storage sites.

IF REPLACEMENT, WHAT NECESSITATES: Replacing obsolete malfunctioning electronics with more reliable-state of the art electronics which will be compatible at each site and improving controls/instrumentation capabilities at all sites.

EFFECT OF NON-PASSAGE: Increasing communication and operational errors at the remote sites that will require extensive labor to provide manual operation at these sites and increasing frequency of water outages in the areas served by these sites.

PRIOR APPROVAL REQUESTED: DATE:

MONIES INVOLVED: Frakes Eng \$113,750.00

PRICE AGREEMENT:

PURCHASE ORDER: Yes

ACCOUNT INFORMATION: Filtration 513-523-B101-4453

